

**ABSTRACT**

A transponder 14.1 for an electronic radio frequency identification system  
5 comprises an antenna 18 having an antenna impedance at a feedpoint  
thereof. The transponder further comprises an electronic circuit 19 having  
an input connected to the antenna. The antenna impedance having  
impedance characteristics for developing first and second voltage maxima  
(36, 38) across the input at first and second frequencies ( $f_L$  and  $f_H$ )  
10 respectively, thereby to provide a continuous operative frequency band for  
the transponder including the first and second frequencies.